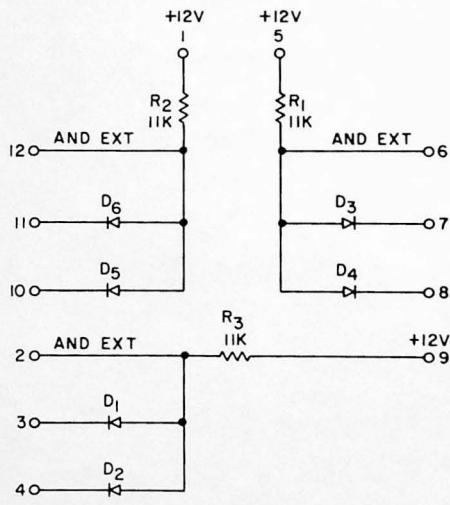


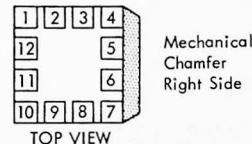
Functional Description

The AND OR Extender, AOX-1C, is used to extend the AND fan-in of either the AOI-1C, AOI-2C or DAOI-2C modules; the resistors R₁, R₂ and R₃ are not incorporated in this application. The AOX-1C can also be used to extend the OR fan-in of the AOI-2C or DAOI-2C modules.

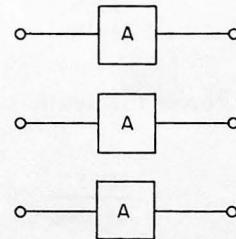
Schematic



Terminal Configuration



Block Diagram



Maximum Ratings

Diode Breakdown Voltage = 13V
Maximum Diode Current = 5 Millamps

AOX-1C Module Functional Tests

INDIVIDUAL DEVICE PARAMETER TESTS						
TESTS	COM-PONENTS	TEST CONDITIONS	T °C	LIMITS		UNITS
				MIN	MAX	
V _F	D ₁ - D ₆	I _F = 0.10ma	25	0.51		v
V _F	D ₁ - D ₆	I _F = 1.0ma	25		0.80	v
V _F	D ₁ - D ₆	I _F = 5.0ma	25		1.0	v
BV _R	D ₁ - D ₆	I _R = 0.01ma	25	13		v
I _R	D ₁ - D ₆	V _R = 12V	75		1.0	a
DIODE CAPACITANCE	D ₁ - D ₆	OV BIAS f = 1.0 ± 0.5mhz AC SIGNAL ≤ 50mv P-P	25		3.5	pF
END OF LIFE RESISTOR TOLERANCE	R ₁ , R ₂ , R ₃		25 75	-8.0	+8.0	%

Circuit Characteristics

Input requirements are the same as the input requirements of the AOI-2C module

Maximum Power Supply Current Requirements

$$+12V \quad \frac{ON}{3.3mA} \quad \frac{OFF}{3.6mA}$$

Maximum Power Dissipation

$$\frac{ON}{42.0mw} \quad \frac{OFF}{46.5mw}$$

$$\text{Average Normal Power Dissipation} = \frac{\text{NOMINAL ON} + \text{NOMINAL OFF}}{2} = 33.0mw$$